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2  
3 In the claims:  
4

5       1 (Currently amended) A device, comprising:  
6       an input fiber to guide an input optical beam;  
7       a stationary reflector having a reflective surface  
8       that is partially transmissive to light, said reflector  
9       positioned to reflect a part of the input optical beam at  
10       said reflective surface as a reflected optical beam and to  
11       transmit a part of the input optical beam as a transmitted  
12       optical beam;  
13       an output fiber positioned to receive and guide the  
14       reflected optical beam as an output optical beam;  
15       an optical detector positioned to receive the  
16       transmitted optical beam and to produce a detector output;  
17       a magnetic field substantially axial to said input of  
18       said output optical fiber;  
19       a variable optical attenuator positioned in an optical  
20       path between said reflective surface and one of said input  
21       and said output fibers to attenuate light in response to a  
22       control signal;  
23       said variable optical attenuator comprising ~~said input~~  
24       ~~fiber and said output fiber both having exposed fiber ends~~

1 ~~adjacent to each other and to a reflective~~ a movable  
2 shutter placed ~~between~~in front of at least one of said  
3 input or said output fiber and said stationary reflector,  
4 said movable shutter interacting with said optical beam,  
5 said ~~reflective~~ movable shutter supported by a current  
6 carrying wire, ~~said wire perpendicular to a magnetic field;~~  
7 ~~such that~~

8 whereby said magnetic field and a magnetic field  
9 produced by said current carrying wire interact, thereby  
10 causing a movement of said ~~reflective~~ movable shutter ~~on~~  
11 ~~said current carrying wire is responsive to the a magnetic~~  
12 ~~field produced by said current carrying wire and said~~  
13 ~~magnetic field;~~

14 ~~said control signal being coupled to the current in~~  
15 ~~said current carrying wire.~~

16

17 2 (original) The device as in claim 1, wherein said  
18 variable optical attenuator is positioned to attenuate the  
19 input optical beam incident to said reflective surface, and  
20 wherein the detector output indicates a power level of the  
21 output optical beam.

22

23 3 (withdrawn) The device as in claim 1, wherein said  
24 variable optical attenuator is positioned to attenuate the

1 reflected optical beam, and wherein the detector output  
2 indicates a power level of the input optical beam.

3

4 4 (cancelled) The device as in claim 1, wherein said  
5 variable optical attenuator is a micro attenuation  
6 controllable element.

7

8 5 (withdrawn) The device as in claim 1, wherein said  
9 variable optical attenuator attenuates light by scattering  
10 light.

11

12 6 (original) The device as in claim 1, wherein said  
13 variable optical attenuator attenuates light by reflecting  
14 light.

15

16 7 (withdrawn) The device as in claim 1, wherein said  
17 variable optical attenuator attenuates light by absorbing  
18 light.

19

20 8 (original) The device as in claim 1, further  
21 comprising a housing to hold said optical detector, said  
22 reflector, said variable optical attenuator, said input and  
23 said output fibers as an integrated package.

24

1           9 (original) The device as in claim 8, said housing  
2 has a first end to hold said optical detector and said  
3 reflector, and a second, opposing end to hold said input  
4 and said output fibers.

5

6           10 - 12 (Cancelled)

7

8           13 (Currently amended) A device, comprising:  
9           a housing having a first end and a second opposing  
10 end;  
11           an optical detector engaged to said first end;  
12           a stationary collimator lens having a flat end lens  
13 facet in said housing to face said optical detector and to  
14 transmit a fraction of light to said optical detector;  
15           a magnet in said housing to produce a magnetic field;  
16           a capillary body being in said housing to hold input  
17 and output fibers that exit said housing at said second  
18 opposing end and having an end facet facing said collimator  
19 lens to expose end facets of said input and output fibers  
20 to said collimator lens and to the magnetic field, wherein  
21 said collimator is configured and spaced from said end  
22 facet of said capillary body to collimate light from one  
23 fiber and to focus reflected light by said flat end lens  
24 facet to another fiber;

1       a conductive wire movably fixed to said capillary body  
2       to have a wire portion across said end facet of said  
3       capillary body, said wire movable along said end facet when  
4       an electric current is supplied to said wire to interact  
5       with said magnetic field; and

6       a shutter engaged to said wire portion and movable  
7       along with said wire to intercept a beam that is either  
8       output by said input fiber or received by said output fiber  
9       to attenuate the beam.

10

11       14 (withdrawn) The device as in claim 13, wherein said  
12       shutter scatters the beam when intercepting the beam.

13

14       15 (withdrawn) The device as in claim 13, wherein said  
15       shutter absorbs the beam when intercepting the beam.

16

17       16 (original) The device as in claim 13, wherein said  
18       shutter reflects the beam when intercepting the beam.

19

20       17 (original) The device as in claim 13, further  
21       comprising first and second adhesive pads on sides surfaces  
22       of said capillary body to bond two parts of said wire to  
23       said capillary body as pivot points for motion of said  
24       wire.

1

2        18 (original) The device as in claim 17, wherein said  
3 adhesive pads are elastic and soft to reduce effects of  
4 mechanical shocks and vibrations to said wire and said  
5 shutter.

6

7        19 (original) The device as in claim 18, wherein said  
8 adhesive pads are made of an epoxy.

9

10       20 (original) The device as in claim 13, further  
11 comprising a control unit the controls the electric  
12 current in said wire in response to an output of said  
13 optical detector.

14

15       21 (original) The device as in claim 13, wherein said  
16 collimator lens is a GRIN lens.

17

18       22 (withdrawn) The device as in claim 13, wherein said  
19 collimator lens is a C lens.

20

21       23 (original) The device as in claim 13, wherein said  
22 flat end lens facet is coated with a reflective coating  
23 that is partially transmissive.

24

1           24 (withdrawn) The device as in claim 13, further  
2   comprising a partially transmissive mirror engaged to said  
3   flat end lens facet.